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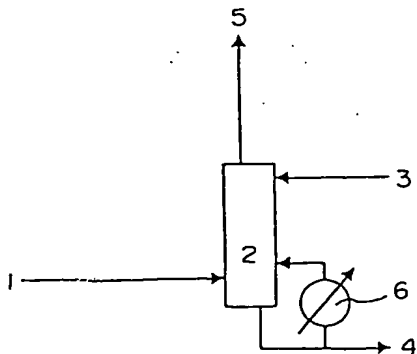
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- (51) 国際特許分類: C07C 57/05, 57/07, 51/25, 51/43 (74) 代理人: 遠山 勉, 外 (TOYAMA, Tsutomu et al.); 〒103-0004 東京都中央区東日本橋3丁目4番10号 ヨコヤマビル6階 Tokyo (JP).
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- 添付公開書類:
— 国際調査報告書
- 2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: METHOD OF COLLECTING ACRYLIC ACID

(54) 発明の名称: アクリル酸の捕集方法



(57) Abstract: A method of collecting acrylic acid which comprises the step of collecting acrylic acid with an aqueous medium from an acrylic-acid-containing reaction gas obtained by the catalytic vapor-phase oxidation of propane, propylene, and/or acrolein, the step being conducted so as to satisfy the following relationship (1), wherein A is the proportion by weight of the acrylic acid to all condensable ingredients in the reaction gas before collection and B is the proportion by weight of the acrylic acid to the bottom liquid discharged from a collector used in the collection step. By this method, acrylic acid can be efficiently collected from an acrylic-acid-containing reaction gas obtained by the catalytic vapor-phase oxidation reaction. $(B/A) < 1.25$ (1)

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(57) 要約:

プロパン、プロピレン及び／又はアクロレインの接触気相酸化により得られるアクリル酸を含む反応ガスから、アクリル酸を水性媒体により捕集する工程を有するアクリル酸の捕集方法において、捕集前の反応ガス中の全凝縮成分に対するアクリル酸の重量分率をAとし、前記捕集工程に用いる捕集装置の缶出液中のアクリル酸の重量分率をBとしたとき、下記式(1)を満たすようにする。この方法によれば、接触気相酸化反応により得られたアクリル酸含有反応ガスから、アクリル酸を効率よく捕集することができる。

$$(B/A) < 1.25 \quad (1)$$

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/11377

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C07C57/05, 57/07, 51/25, 51/43

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C07C57/05, 57/07, 51/25, 51/43

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI (DIALOG)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1066872 A1 (Nippon Shokubai Co., Ltd.), 10 January, 2001 (10.01.01), Example 1; Claims & JP 2001-19655 A	1-4
X	EP 1070700 A2 (Rohm and Haas Co.), 24 January, 2001 (24.01.01), Par. Nos. [0028], [0030] & JP 2001-64227 A	1-4
X A	EP 778255 A1 (Nippon Shokubai Co., Ltd.), 11 June, 1997 (11.06.97), Page 3, right column, lines 17 to 19 & JP 9-157213 A & US 5785821 A	1, 3, 4 2

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
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Name and mailing address of the ISA/
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